

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/782,998 B
Source: IFW/6
Date Processed by STIC: 09/07/2006

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 09/07/2006

PATENT APPLICATION: US/10/782,998B

TIME: 10:29:16

Input Set : N:\Cr4\09072006\J782998B.raw

Output Set: N:\CRF4\09062006\J782998B.raw

1 <110> APPLICANT: Itoh, Nobuya
 2 <120> TITLE OF INVENTION: Reductase Gene and Use of the Same
 3 <130> FILE REFERENCE: 600630-15US (562737)
 C--> 4 <140> CURRENT APPLICATION NUMBER: US/10/782,998B
 5 <141> CURRENT FILING DATE: 2004-02-20
 6 <150> PRIOR APPLICATION NUMBER: JP 2003-053568
 7 <151> PRIOR FILING DATE: 2003-02-28
 8 <160> NUMBER OF SEQ ID NOS: 14
 9 <170> SOFTWARE: PatentIn version 3.2
 11 <210> SEQ ID NO: 1
 12 <211> LENGTH: 251
 13 <212> TYPE: PRT
 14 <213> ORGANISM: Leifsonia sp.
 15 <400> SEQUENCE: 1
 16 Met Ala Gln Tyr Asp Val Ala Asp Arg Ser Ala Ile Val Thr Gly Gly
 17 1 5 10 15
 18 Gly Ser Gly Ile Gly Arg Ala Val Ala Leu Thr Leu Ala Ala Ser Gly
 19 20 25 30
 20 Ala Ala Val Leu Val Thr Asp Leu Asn Glu Glu His Ala Gln Ala Val
 21 35 40 45
 22 Val Ala Glu Ile Glu Ala Ala Gly Gly Lys Ala Ala Leu Ala Gly
 23 50 55 60
 24 Asp Val Thr Asp Pro Ala Phe Gly Glu Ala Ser Val Ala Gly Ala Asn
 25 65 70 75 80
 26 Ala Leu Ala Pro Leu Lys Ile Ala Val Asn Asn Ala Gly Ile Gly Gly
 27 85 90 95
 28 Glu Ala Ala Thr Val Gly Asp Tyr Ser Leu Asp Ser Trp Arg Thr Val
 29 100 105 110
 30 Ile Glu Val Asn Leu Asn Ala Val Phe Tyr Gly Met Gln Pro Gln Leu
 31 115 120 125
 32 Lys Ala Met Ala Ala Asn Gly Gly Gly Ala Ile Val Asn Met Ala Ser
 33 130 135 140
 34 Ile Leu Gly Ser Val Gly Phe Ala Asn Ser Ser Ala Tyr Val Thr Ala
 35 145 150 155 160
 36 Lys His Ala Leu Leu Gly Leu Thr Gln Asn Ala Ala Leu Glu Tyr Ala
 37 165 170 175
 38 Ala Asp Lys Val Arg Val Val Ala Val Gly Pro Gly Phe Ile Arg Thr
 39 180 185 190
 40 Pro Leu Val Glu Ala Asn Leu Ser Ala Asp Ala Leu Ala Phe Leu Glu
 41 195 200 205
 42 Gly Lys His Ala Leu Gly Arg Leu Gly Glu Pro Glu Glu Val Ala Ser
 43 210 215 220
 44 Leu Val Ala Phe Leu Ala Ser Asp Ala Ala Ser Phe Ile Thr Gly Ser

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45          225          230          235          240
46      Tyr His Leu Val Asp Gly Gly Tyr Thr Ala Gln
47          245          250
49 <210> SEQ ID NO: 2
50 <211> LENGTH: 756
51 <212> TYPE: DNA
52 <213> ORGANISM: Leifsonia sp.
53 <220> FEATURE:
54 <221> NAME/KEY: CDS
55 <222> LOCATION: (1)..(756)
56 <400> SEQUENCE: 2
57      atg gct cag tac gac gtc gcc gac cgg tcc gcg atc gtg acc gga ggc      48
58      ggc tcg ggc atc ggg cgc gcc gtg gcg ctc act ctc gcg gcg agc ggc      96
59      gca gcc gtc ctc gtc acc gac ctg aac gag gag cac gcg cag gcc gtc      144
60      gtg gcc gag atc gag gcc gcg ggc ggt aag gcc gcc gcg ctc gcg ggc      192
61      gac gtg acc gac ccc gcg ttc ggc gag gcg agc gtc gcc ggg gcg aac      240
62      gct cta gcg ccc ctc aag atc gcg gtc aac aac gcg ggc atc ggc ggc      288
63      gag gcc gcc acg gtc ggc gac tac tcg ctc gac agc tgg cgc acg gtg      336
64      atc gag gtc aac ctc aac gcc gtg ttc tac ggg atg cag ccg cag ctg      384
65      aag gcc atg gcc gcc aac ggc ggc ggt gcg atc gtc aac atg gcg tcc      432
66      atc ctg gga agc gtc ggc ttc gcc aac tcg tcg gcc tac gtc acg gcc      480
67      aag cac gcg ctg ctc ggt ctc acc cag aac gcc gcg ctc gag tac gcc      528
68      gcc gac aag gtg cgc gtc gtc gcg gtc ggc ccc ggc ttc atc cgc acc      576
69      ccg ctc gtg gag gcc aac ctc tcc gcc gac gcg ctg gcg ttc ctc gag      624
70      ggc aag cac gcc ctc ggc cgc ctg ggc gag ccg gaa gag gtc gcc tcg      672
71      ctg gtc gcg ttc ctc gcc tcc gac gcc gcg agc ttc atc acc ggc agc      720
72      tac cac ctg gtg gac ggc ggc tac acc gcc cag tga      756
74 <210> SEQ ID NO: 3
75 <211> LENGTH: 20
76 <212> TYPE: DNA
77 <213> ORGANISM: Artificial sequence
78 <220> FEATURE:
79 <223> OTHER INFORMATION: Designed oligonucleotide primer for PCR
80 <400> SEQUENCE: 3
81      atggctcagt acgacgtcgc      20
83 <210> SEQ ID NO: 4
84 <211> LENGTH: 20
85 <212> TYPE: DNA
86 <213> ORGANISM: Artificial Sequence
87 <220> FEATURE:
88 <223> OTHER INFORMATION: Designed oligonucleotide primer for PCR
89 <400> SEQUENCE: 4
90      tcactgggcg gtgtagccgc      20
92 <210> SEQ ID NO: 5
93 <211> LENGTH: 15
94 <212> TYPE: PRT
95 <213> ORGANISM: Leifsonia sp.
96 <400> SEQUENCE: 5
97      Ala Gln Tyr Asp Val Ala Asp Arg Ser Ala Ile Val Thr Gly Gly

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98          1          5          10          15
100 <210> SEQ ID NO: 6
101 <211> LENGTH: 12
102 <212> TYPE: PRT
103 <213> ORGANISM: Leifsonia sp.
104 <400> SEQUENCE: 6
105      Ile Ala Val Asn Asn Ala Gly Ile Gly Gly Glu Ala
106      1          5          10
108 <210> SEQ ID NO: 7
109 <211> LENGTH: 20
110 <212> TYPE: DNA
111 <213> ORGANISM: Artificial Sequence
112 <220> FEATURE:
113 <223> OTHER INFORMATION: Designed oligonucleotide primer for PCR
114 <220> FEATURE:
115 <221> NAME/KEY: misc_feature
116 <222> LOCATION: (12)..(12)
117 <223> OTHER INFORMATION: n is inosine
118 <220> FEATURE:
119 <221> NAME/KEY: misc_feature
120 <222> LOCATION: (15)..(15)
121 <223> OTHER INFORMATION: n is a, c, g, or t
122 <400> SEQUENCE: 7
W--> 123      cartaygayg tngcngahmg                      20
125 <210> SEQ ID NO: 8
126 <211> LENGTH: 20
127 <212> TYPE: DNA
128 <213> ORGANISM: Artificial sequence
129 <220> FEATURE:
130 <223> OTHER INFORMATION: Designed oligonucleotide primer for PCR
131 <220> FEATURE:
132 <221> NAME/KEY: misc_feature
133 <222> LOCATION: (6)..(6)
134 <223> OTHER INFORMATION: n is inosine
135 <220> FEATURE:
136 <221> NAME/KEY: misc_feature
137 <222> LOCATION: (9)..(9)
138 <223> OTHER INFORMATION: n is a, c, g, or t
139 <220> FEATURE:
140 <221> NAME/KEY: misc_feature
141 <222> LOCATION: (18)..(18)
142 <223> OTHER INFORMATION: n is a, c, g, or t
143 <400> SEQUENCE: 8
W--> 144      ccdatnccng crttrttnac                      20
146 <210> SEQ ID NO: 9
147 <211> LENGTH: 304
148 <212> TYPE: DNA
149 <213> ORGANISM: Leifsonia sp.
150 <400> SEQUENCE: 9

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151      gaattcgatt cagtatgatg tggctgatcg gtccgcgacg gtgaccggag gcggctcagg,      60
152      catcgggcgc gccgtggcgc tactctcgc ggcgagcggc gcagccgtcc tcgtcaccga      120
153      cctgaacgag gagcacgcgc aggccgtcgt ggccgagatc gagggcgcgg gcggtaaggc      180
154      cgccgcgctc gcgggcgacg tgaccgaccc cgcgttcggc gaggcgagcg tcgccggggc      240
155      gaacgctctc gcgcccctca agatcgcggt caataacgca ggcacgga tctactagtga      300
156      attc                                                                    304
158 <210> SEQ ID NO: 10
159 <211> LENGTH: 304
160 <212> TYPE: DNA
161 <213> ORGANISM: Leifsonia sp.
162 <400> SEQUENCE: 10
163      gaattcgatt cagtatgatg tggctgatcg gtccgcgacg gtgaccggag gcggctcagg      60
164      catcgggcgc gccgtggcgc tactctcgc ggcgagcggc gcagccgtcc tcgtcaccga      120
165      cctgaacgag gagcacgcgc aggccgtcgt ggccgagatc gagggcgcgg gcggtaaggc      180
166      cgccgcgctc gcgggcgacg tgaccgaccc cgcgttcggc gaggcgagcg tcgccggggc      240
167      gaacgctctc gcgcccctca agatcgcggt caataacgca ggcacgga tctactagtga      300
168      attc                                                                    304
170 <210> SEQ ID NO: 11
171 <211> LENGTH: 26
172 <212> TYPE: DNA
173 <213> ORGANISM: Artificial sequence
174 <220> FEATURE:
175 <223> OTHER INFORMATION: Designed oligonucleotide primer for PCR
176 <400> SEQUENCE: 11
177      ggagatttcc atggctcagt acgacg                                          26
179 <210> SEQ ID NO: 12
180 <211> LENGTH: 20
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial Sequence
183 <220> FEATURE:
184 <223> OTHER INFORMATION: Designed oligonucleotide primer for PCR
185 <400> SEQUENCE: 12
186      gggctgcagc ccggctcactg                                              20
188 <210> SEQ ID NO: 13
189 <211> LENGTH: 29
190 <212> TYPE: DNA
191 <213> ORGANISM: Artificial Sequence
192 <220> FEATURE:
193 <223> OTHER INFORMATION: Designed oligonucleotide primer for PCR
194 <400> SEQUENCE: 13
195      gctgcagcga tcatcatagc aggagtcac                                     29
197 <210> SEQ ID NO: 14
198 <211> LENGTH: 31
199 <212> TYPE: DNA
200 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Designed oligonucleotide primer for PCR
203 <400> SEQUENCE: 14
204      acaagcttgt gaattcaaca ccagtcagct c                                  31

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; N Pos. 12,15
Seq#:8; N Pos. 6,9,18

VERIFICATION SUMMARY

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L:4 M:270 C: Current Application Number differs, Wrong Format

L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0

L:144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0